PATENT COOPERATION TREATY

To:

From the	INTERNA	TIONAL	BUREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
14 June 2000 (14.06.00)

International application No.
PCT/GB99/03356

International filing date (day/month/year)
11 October 1999 (11.10.99)

Applicant

KNEE, Michael, James et al

1.	The designated Office is hereby notified of its election made:
••	X in the demand filed with the International Preliminary Examining Authority on:
	08 May 2000 (08.05.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	·

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

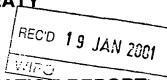
Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

paint







INTERNATIONAL PRELIMINARY EXAMINATION REPORTED

(PCT Article 36 and Rule 70)

		ent's file reference	FOR FURTHER AC		ification of Transmittal of International ary Examination Report (Form PCT/IPEA/416)
PDG/209	52				
Internationa			International filing date (da	ay/month/year)	Priority date (day/month/year)
PCT/GB9			11/10/1999		09/10/1998
Internationa H04N7/3		ent Classification (IPC) or n	ational classification and IPC		
Applicant SNELL &	WIL	COX LIMITED et al.			
			nination report has been p according to Article 36.	repared by this I	nternational Preliminary Examining Authority
2. This F	REPC	PRT consists of a total o	f 8 sheets, including this	cover sheet.	
b (s	een a see R	mended and are the ba	sis for this report and/or s 607 of the Administrative I	heets containing	tion, claims and/or drawings which have prectifications made before this Authority the PCT).
3. This r	eport ⊠		ating to the following item	s:	
i H		Basis of the report Priority			
111		<u>*</u>	oninion with regard to nov	elty inventive st	ep and industrial applicability
IV		Lack of unity of invent	· -	ony, mvomivo or	op and madema, applicability
V	×	Reasoned statement (gard to novelty, i	nventive step or industrial applicability;
VI		Certain documents ci	ted		
VII	\boxtimes	Certain defects in the	international application		
VIII	×	Certain observations of	on the international applica	ation	
Date of sub	missio	on of the demand		Date of completion	of this report
08/05/20	00			17.01.2001	
	exam	g address of the internation ining authority: opean Patent Office	al	Authorized officer	ELECTRICO MICHAEL ELECTRICAL ELEC
<u></u>	Tel.	0298 Munich +49 89 2399 - 0 Tx: 52365 : +49 89 2399 - 4465	56 epmu d	Moorhouse, D Telephone No. +4	9.89 2399 8631



I. Basis of the report

١.	resp the	oonse to an invitation	rawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-10)	as originally filed
	Clai	ms, No.:	
	1-11	I	as originally filed
	Dra	wings, sheets:	
	1/3-	3/3	as originally filed
2.			juage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	The	se elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	ublication of the international application (under Rule 48.3(b)).
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.			eleotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	ently to this Authority in written form.
		furnished subsequ	ently to this Authority in computer readable form.
			t the subsequently furnished written sequence listing does not go beyond the disclosure in pplication as filed has been furnished.
		The statement that listing has been fu	t the information recorded in computer readable form is identical to the written sequence rnished.
1.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:

		the drawings,	sheets:		
5.		This report has been considered to go bey	establishe	d as if (so	some of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
		(Any replacement shoreport.)	eet contain	ing such	h amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, if	necessary	/ :	
IV.	Lac	k of unity of inventic	on.		
1.	In re	esponse to the invitation	on to restric	ct or pay	additional fees the applicant has:
		restricted the claims.			
		paid additional fees.			
		paid additional fees u	ınder prote	st.	
	\boxtimes	neither restricted nor	paid additi	onal fees	es.
2.					nt of unity of invention is not complied and chose, according to Rule of or pay additional fees.
3.	This	s Authority considers t	hat the req	uirement	at of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.			
	Ø	not complied with for see separate sheet	the following	ng reasoi	ons:
4.		nsequently, the followin mination in establishir			rnational application were the subject of international preliminary
		all parts.			
	×	the parts relating to c	laims Nos.	5-11.	_
٧.		soned statement un			with regard to novelty, inventive step or industrial applicability;
1.	Stat	tement			
	Nov	velty (N)	Yes: No:	Claims Claims	
	Inve	entive step (IS)	Yes: No:	Claims Claims	8, 10, 11 5- 5-7,9



Industrial applicability (IA)

Yes:

Claims 5-11

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Concerning Box IV

As indicated by the ISA, the present application relates to the following two alleged inventions:

Claims 1 to 4: A method for estimating the severity of a picture artefact arising from block based processing.

Claims 5 to 11: A method for estimating the signal to noise ratio of a picture signal decoded from a compressed bit-stream.

The IPEA agrees with the ISA that the requirements of Rule 13 PCT are not met. The only thing the two alleged inventions have in common is that they relate to methods of processing picture signals to judge the effects of noise / artefacts. Such methods are well known in the art, as will be apparent from the following section relating to the requirements of Article 33 PCT.

Concerning Box V

The following documents are cited:

D1 : US-A-5 610 729

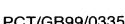
D2 : US-A-5 675 385

D3 : US-A-5 636 295

EP-A-0 714 210 D4 :

The subject-matter of claims 5 to 7 and 9 lacks an inventive step, and therefore does not meet the requirement set out in Article 33 (3) PCT.

Document D1 discloses:



- A method for estimating the noise of a picture signal decoded from a compressed bit stream, comprising the steps of determining the quantization values employed in said compression (see column 4, lines 33 to 35) and deriving said estimate by processing said values (see column 4, line 31 to column 5, line 36, for example).

Thus, document D1 does not mention the derivation of a signal to noise ratio (SNR). However, given the noise estimates derived according to D1 and the value of the signal, it would be obvious to the skilled person that the signal to noise ratio can easily be determined and, moreover, that the actual way of expressing the noise - viz as an SNR or an MSE etc. is unimportant. What counts in the context of the present application is the use of the quantization steps.

Thus, the subject-matter of claim 5 follows in an obvious manner from the disclosure of document D1.

The additional feature of claim 6 is rendered obvious by column 4, lines 43 to 56 and column 5, lines 7 to 22 of document D1.

The additional feature of claim 7 is rendered obvious by step (6) described in columns 5 and 6 of document D1.

The additional feature of claim 9 is automatically taken account by the relations (1) and (2) and column 5, lines 7 to 22 of document D1.

The subject-matter of claims 5 to 7 is also rendered obvious by the disclosure of document D2. Attention is drawn to Figure 3 and associated description as regards claims 5 and 6, and to Figure 5, element 52 as regards claim 7.

Thus, the subject-matter of claims 5 o 7 follows in an obvious manner from the disclosure of document D2.

The subject-matter of claims 5 and 6 is also rendered obvious by the disclosure of document D3. Attention is drawn to Figure 2, elements 50 and 60 as regards claim 5, and to column 4, lines 25 to 37 as regards claim 6.

EXAMINATION REPORT - SEPARATE SHEET

Thus, the subject-matter of claims 5 and 6 follows in an obvious manner from the disclosure of document D3.

The subject-matter of claims 5 and 7 is also rendered obvious by the disclosure of document D4. Attention is drawn to Figure 1, elements 5 and 6 as regards claims 5 (since the coring control signal is related to "mosquito noise"), and to Figures 9 and 14, elements 40 and 41 as regards claim 7.

Thus, the subject-matter of claims 5 and 7 follows in an obvious manner from the disclosure of document D4.

The quadratic function of quantization scale code (claim 8), the use of an (estimate of) the bit-rate of the compressed bit-stream as the picture activity (claim 10) and the passing forward of an estimate from an upstream location (claim 11) are all not suggested in documents D1 to D4, so that claims 8, 10 and 11 meet the requirements set out in Article 33 PCT.

Concerning Box VII

The claims are not in the two-part form specified in Rule 6.3 (b) PCT.

Reference signs as defined in Rule 6.2 (b) PCT are absent from the claims.

The publication number of the copending application is missing from page 6 of the description.

Concerning Box VIII

Claims 5 to 10 lack clarity, and therefore do not meet the requirement set out in Article 6 PCT.

Claim 5

It is not at all clear, how the values are "processed".



Claim 6

It is not at all clear, how the experimental value was derived. Were the said parameters used to decode the picture in question or a test picture? Since the description provides no further detail in this respect, an objection under Article 5 PCT also arises.

Claim 7

It is not at all clear **of what (which picture)** the activity is "measured". Moreover, is it an actual activity, or a theoretical activity. The latter appears to be the case, according to the equation for H on page 9.

Claims 8 and 9

These claims at present depend on claim 5, but mention "said function of quantization scale code", which terminology first appears in claim 7.

Claim 10

This claim is objected to for the same reasons as claim 7.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report
PDG/20952	ACTION (Form PC1/ISA/)	/220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 99/03356	11/10/1999	09/10/1998
Applicant		
THE STATE OF LINITED AND	-	
SNELL & WILCOX LIMITED et	a1.	
This International Search Report has bee according to Article 18. A copy is being tra	en prepared by this International Searching Autl ransmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	s of a total of sheets. y a copy of each prior art document cited in this	s report.
1. Basis of the report		
	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23 1(b)).	was carried out on the basis of a translation of the	he international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the	ıd/or amino acid sequence disclosed in the ir le sequence listing :	nternational application, the international search
	onal application in written form.	
	ernational application in computer readable form	n.
=	o this Authority in written form.	
	o this Authority in computer readble form.	the state of the s
	bsequently furnished written sequence listing d as filed has been furnished.	loes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	is identical to the written sequence listing has been
	and unsearchable (See Box I).	
3. X Unity of invention is lack	king (see Box II).	
4. With regard to the title,		
the text is approved as su	ubmitted by the applicant.	
	shed by this Authority to read as follows:	
L	FOR BLOCKING EFFECT REDUCTIO	JN .
e tarm to the abetract		
5. With regard to the abstract, The text is approved as sul	.hitted by the applicant	
the text has been establish	pomitted by the applicant. shed, according to Rule 38.2(b), by this Authorit e date of mailing of this international search rep	
6. The figure of the drawings to be publi		3
as suggested by the applic	cant.	None of the figures.
because the applicant faile	ed to suggest a figure.	
X because this figure better	characterizes the invention.	

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.	



This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4

A method for estimating the severity of a picture artefact from block based processing

2. Claims: 5-11

A method for estimating the signal to noise ratio of a picture signal decoded from a compressed bit-stream

International Application No FT/GB 99/03356

A.	CL	SSIFIC	ATION	OF	SUBJE	СТ	N	ĒΒ
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TI	·	,	יו ר טח	7	30			

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ \ H04N$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Ā	EP 0 797 349 A (SAMSUNG ELECTRONICS CO LTD) 24 September 1997 (1997-09-24) page 3, line 3 -page 5, line 5	1-4
A	WO 97 40627 A (SONY CORP ;SONY ELECTRONICS INC (US); CHANG CHING FANG (US); LEE C) 30 October 1997 (1997-10-30) page 13 -page 14	1,2
Α	US 5 422 964 A (DEVIMEUX DANIEL ET AL) 6 June 1995 (1995-06-06) abstract	1,2
Α	US 5 732 159 A (JUNG SEOK-YOON) 24 March 1998 (1998-03-24) column 2, line 37 -column 4, line 45	1

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents :	"T" later document published after the international filing date
A document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
E earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another	involve an inventive step when the document is taken alone
citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the
O document referring to an oral disclosure, use, exhibition or other means	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled
P document published prior to the international filing date but later than the priority date claimed	in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
14 April 2000	2 2 05 2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Marie-Julie, J-M

International Application No T/GB 99/03356

(Continuation) DOCUMENTS CONSTANT	
egory * Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 5 610 729 A (NAKAJIMA YASUYUKI) 11 March 1997 (1997-03-11)	5
abstract column 5, line 40 - line 63	6-10
US 5 675 385 A (SUGIYAMA KENJI) 7 October 1997 (1997-10-07) abstract column 5, line 32 - line 55	11
US 5 636 295 A (KIM JONG-IL) 3 June 1997 (1997-06-03) column 2, line 44 - line 57 column 3, line 26 - line 37 column 4, line 26 - line 38	5
EP 0 714 210 A (VICTOR COMPANY OF JAPAN) 29 May 1996 (1996-05-29) abstract page 6, column 9, line 4 - line 30	5
·	

6

Internation on patent family members

International Application No.
T/GB 99/03356

						
	ent document in search report		Publication date	!	Patent family member(s)	Publication date
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	0/3/343	^	24 05 1557	US	5883983 A	16-03-1999
						10 03 1999
WO 9	9740627	Α	30-10-1997	US	5933542 A	03-08-1999
				AU	2194697 A	12-11-1997
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				JP		
				JP	8205158 A	09-08-1996
				US	5754699 A	19-05-1998
				CN	1126926 A	17-07-1996

PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:
H04N 7/30
A2
(11) International Publication Number: WO 00/22834
(43) International Publication Date: 20 April 2000 (20.04.00)

(21) International Application Number:

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(22) International Filing Date:

11 October 1999 (11.10.99)

(30) Priority Data:

9822094.0

9 October 1998 (09.10.98)

GB

(71) Applicant (for all designated States except US): SNELL & WILCOX LIMITED [GB/GB]; 6 Old Lodge Place, St. Margaret's, Twickenham TW1 1RQ (GB).

(72) Inventors; and

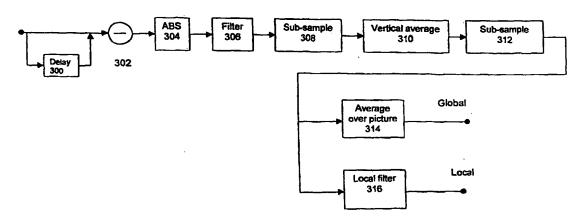
- (75) Inventors/Applicants (for US only): KNEE, Michael, James [GB/GB]; 6 Woodbury Avenue, Petersfield, Hampshire GU32 2EE (GB). DIGGINS, Jonathan [GB/GB]; 16 Sussex Gardens, Petersfield, Hampshire GU31 4JY (GB).
- (74) Agents: GARRATT, Peter, Douglas et al.; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).

(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

Without international search report and to be republished upon receipt of that report.

(54) Title: METHOD AND APPARATUS FOR BLOCKING EFFECT REDUCTION



(57) Abstract

By utilising parameters derivable from a compressed bit-stream, measures are obtained of the subjective quality of a decoded picture, without the necessity for reference to source material. A blockiness measure is derived both locally and globally and used to control a de-blocking filter. An estimate of signal-to-noise ratio is derived from quantization values.

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(21) International Application Number:

ORLD INTELLECTUAL PROPERTY ORGANIZAT International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: H04N 7/30	A3	(11) International Publication Number:	WO 00/22834	
1104IN 7/30		(43) International Publication Date:	20 April 2000 (20.04.00)	

PCT/GB99/03356

(22) International Filing Date: 11 October 1999 (11.10.99) CH, CY, L

(30) Priority Data: 9822094.0 9 October 1998 (09.10.98) GB

(71) Applicant (for all designated States except US): SNELL & WILCOX LIMITED [GB/GB]; 6 Old Lodge Place, St. Margaret's, Twickenham TW1 1RQ (GB).

(72) Inventors; and
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Gardens, Petersfield, Hampshire GU31 4JY (GB).

(74) Agents: GARRATT, Peter, Douglas et al.; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).

(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

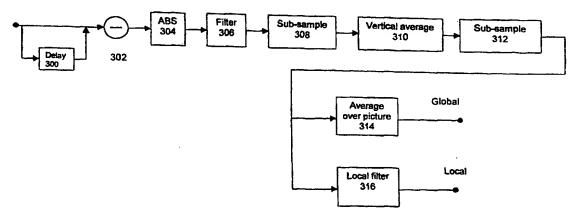
Published

With international search report.

(88) Date of publication of the international search report:

8 September 2000 (08.09.00)

(54) Title: METHOD AND APPARATUS FOR BLOCKING EFFECT REDUCTION



(57) Abstract

By utilising parameters derivable from a compressed bit-stream, measures are obtained of the subjective quality of a decoded picture, without the necessity for reference to source material. A blockiness measure is derived both locally and globally and used to control a de-blocking filter. An estimate of signal-to-noise ratio is derived from quantization values.

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BJ	Benin	IE	Ireland	MN		TT	Trinidad and Tobago
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CG	Congo	KE	Kenya	NE	Niger	VN	Viet Nam
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cz		KZ	Kazakstan	RO	Romania		
DE	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04N7/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04N

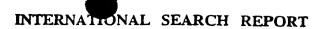
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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EP 0 797 349 A (SAMSUNG ELECTRONICS CO LTD) 24 September 1997 (1997-09-24) page 3, line 3 -page 5, line 5	1-4
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Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the ctaimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 14 April 2000	Date of mailing of the international search report 2.2. 05, 2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Marie-Julie, J-M

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inte: Jonei Application No PCT/GB 99/03356

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ereflois ,	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 610 729 A (NAKAJIMA YASUYUKI) 11 March 1997 (1997-03-11)	5
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X	US 5 675 385 A (SUGIYAMA KENJI) 7 October 1997 (1997-10-07) abstract column 5, line 32 - line 55	11
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A	EP 0 714 210 A (VICTOR COMPANY OF JAPAN) 29 May 1996 (1996-05-29) abstract page 6, column 9, line 4 - line 30	5
:		
:		

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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remari	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4

A method for estimating the severity of a picture artefact from block based processing

2. Claims: 5-11

A method for estimating the signal to noise ratio of a picture signal decoded from a compressed bit-stream $\,$

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information on patent family members

Inta. Jonal Application No PCT/GB 99/03356

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